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L10: Entry 1 of 1 File: DWPI Aug 6, 1992

DERWENT-ACC-NO: 1992-284593
DERWENT-WEEK: 199234

TITLE: Isolated gene locus UGT1, DNA segments and diagnostic probes - for diagnosing Gilbert's disease and Crigler-Najjar syndrome types I and II

INVENTOR: OWENS, I S; RITTER, J K

PATENT-ASSIGNEE:

ASSIGNEE	CODE
US DEPT HEALTH & HUMAN SERVICE	USSH

PRIORITY-DATA: 1991US-0639453 (January 10, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9212987 A1	August 6, 1992	E	099	C07H015/12
AU 9212278 A	August 27, 1992	N/A	000	C07H015/12
US 7639453 A	December 1, 1992	N/A	038	C12N000/00

DESIGNATED-STATES: AU CA JP US AT BE CH DE DK ES FR GB GR IT LU MC NL SE

CITED-DOCUMENTS:3.Jnl.Ref

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9212987A1	January 10, 1992	1992WO-US00282	N/A
AU 9212278A	January 10, 1992	1992AU-0012278	N/A
AU 9212278A	January 10, 1992	1992WO-US00282	N/A
AU 9212278A		WO 9212987	Based on
US 7639453A	January 10, 1991	1991US-0639453	N/A

INT-CL (IPC): C07H 15/12; C07K 15/14; C12N 1/20; C12N 5/00; C12N 15/00; C12P 19/34; C12Q 1/68; G01N 33/48; G01N 33/566

ABSTRACTED-PUB-NO: WO 9212987A
BASIC-ABSTRACT:

An isolated gene locus, designated UGT1, is new. It has a sequence, reproduced in the specification, of about 10000 bp which represents 6 transcriptional units (UGT1A, BP, C, D, E and F) plus about 69 kbp of non-sequenced DNA.

USE/ADVANTAGE - UGT1 encodes at least 6 transferase isoforms, two of which metabolise bilirubin. The probes are useful for diagnosis of diseases associated with inadequate bilirubin glucuromidation, i.e. Gilbert's syndrome or Crigler-Najjar (CN) syndrome types (I) and (II). The cDNA sequences are potentially useful in gene therapy of such diseases.
ABSTRACTED-PUB-NO:

US 7639453A
EQUIVALENT-ABSTRACTS:

Human liver cDNA clones HUG-Br-1 and -2 encode the prodn. of UDP-glucurono syltransferase, an enzyme which glucuronidates bilirubin-IX-alpha to form -IX-alpha-C8 and -C12 monoconjugates and also a diconjugate.

USE - The recombinant cDNA provides gene therapy for patients with fatal Crigler-Najjar type I disease or other hyperbilirubinemic syndromes (e.g. Gilbert's disease and type II Crigler-Najjar disease); and also serves as a reagent for the diagnosis of these conditions in the foetus or patient

CHOSEN-DRAWING: Dwg.2/13 Dwg.0/7

TITLE-TERMS: ISOLATE GENE LOCUS DNA SEGMENT DIAGNOSE PROBE DIAGNOSE GILBERT DISEASE SYNDROME TYPE

DERWENT-CLASS: B04 D16 S03

CPI-CODES: B04-B02B; B04-B04A1; B04-B04A3; B12-K04A; D05-H;

EPI-CODES: S03-E14H4; S03-E14H9;

CHEMICAL-CODES:

Chemical Indexing M1 *01*
Fragmentation Code
M423 M710 M903 P831 Q233 V600 V643 V753 V754 V802 V812

Chemical Indexing M1 *02*
Fragmentation Code
M423 M710 M903 N135 Q233 V500 V540

Chemical Indexing M6 *03*
Fragmentation Code
M903 P721 P831 Q233 R515 R520 R521 R624 R639

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1992-126585
Non-CPI Secondary Accession Numbers: N1992-217819